# Setup Guide — TPX 88 Series

This sheet provides quick start instructions for an experienced installer to set up and operate the TPX 88 Series matrix switcher.

**IMPORTANT:** Refer to www.extron.com for the user manual and installation instructions before connecting the product to the power supply.
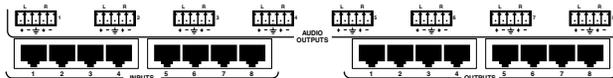
## About Audio

The TPX 88 A has local audio outputs on 5-pole, 3.5 mm captive screw connectors. These outputs always follow the RJ-45 outputs, regardless of whether the audio follows the video or is broken away from the video in the TP ties.

**NOTE** *The TP transmitters and receivers distribute audio in a proprietary digital channel of the TP link.*

- *The TPX 88 **cannot** switch this audio.*
- *The TPX 88 A **can** switch this audio and extract it for the local audio connectors.*

**NOTE** *The audio distributed by **MTP transmitter and receivers** is incompatible with the audio extraction and processing capabilities of the TPX 88 A.*

- *The TPX 88 and the TPX 88 A **cannot** switch the mono audio that is distributed by most MTP transmitters and receivers.*
- *The TPX 88 and the TPX 88 A **can** switch the stereo audio that is distributed by stereo audio versions of the MTP S-video and composite video transmitters and receivers, but the TPX 88 A **cannot** extract it for the local connectors.*

## Installation

### Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the MTP switcher as required.
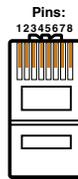
### Step 2 — TP inputs and outputs

Terminate up to eight TP input cable and up to eight TP output cables as shown at right. Connect them between the TPX 88 and the TP input and output devices.

**NOTE** *The TPX 88 does not support the remote power capability of some TP transmitters and receivers.*

**Pins: 12345678**

| Pin | T568A Wire color | T568B Wire color |
|---|---|---|
| 1 | White-green | White-orange |
| 2 | Green | Orange |
| 3 | White-orange | White-green |
| 4 | Blue | Blue |
| 5 | White-blue | White-blue |
| 6 | Orange | Green |
| 7 | White-brown | White-brown |
| 8 | Brown | Brown |

Insert TP Wires

**NOTE** *If you are using Enhanced Skew-Free™ A/V cable, use the TIA/EIA T568A standard only.*

### Step 3 — Connect a local audio device (TPX 88 A)

Connect up to eight audio devices to the Audio Outputs connectors. Wire the connectors as shown below.
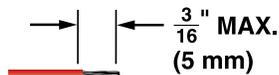
**CAUTION** *Connect the sleeves to ground (Gnd). Connecting the sleeve to a negative (-) terminal will damage the audio output circuits.*

$\frac{3}{16}$ " MAX. (5 mm)

**Do not tin the wires!**

NO GROUND HERE.
Sleeve(s)
NO GROUND HERE.
Tip
Tip

**Unbalanced Stereo Output**

Tip
Ring
Sleeve(s)
Tip
Ring

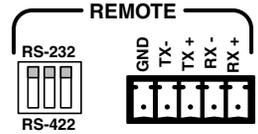**Balanced Stereo Output**

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## Setup Guide — TPX 88 series (cont'd)

### Step 4 — Remote connector

- Connect a serial port controller. Wire the connector as shown in the table at right.
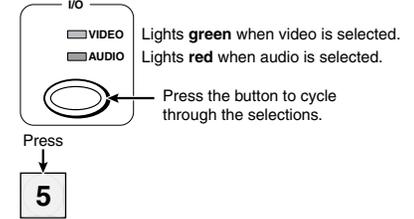- Use the RS-232/RS-422 DIP switches to configure the port for the desired protocol.

### Step 5 — Power

Plug a standard IEC power cord between the power connector and a 100 VAC to 240 VAC, 50 or 60 Hz power source.

**RS-232** All switches up (Default)

**RS-422** Switches 1 & 2 down, 3 up

**REMOTE** — GND TX- TX+ RX- RX+

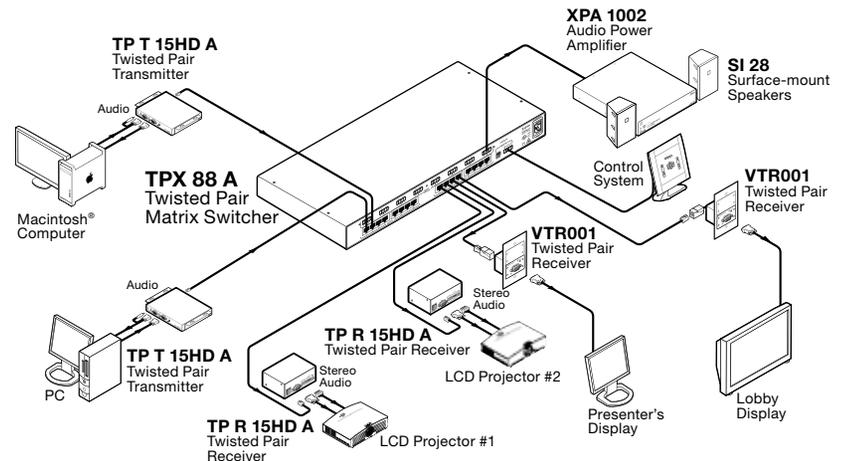| Pin | RS-232 | Function | RS-422 | Function |
|---|---|---|---|---|
| Gnd | Gnd | Signal ground | Gnd | Signal ground |
| TX- | — | Not used | TX- | Transmit data (-) |
| TX+ | TX+ | Transmit data | TX+ | Transmit data (+) |
| RX- | — | Not used | RX- | Receive data (-) |
| RX+ | RX+ | Receive data | RX+ | Receive data (+) |

## Operation — Creating ties

A **Tie** is an input-to-output connection. An input can be **tied** to more than one outputs. An output can never be **tied** to more than one input. Create ties as follows:

**I/O** — VIDEO — Lights **green** when video is selected. AUDIO — Lights **red** when audio is selected. Press the button to cycle through the selections. Press

1. **TPX 88 A only —** Press and release the I/O button to select video and audio, video only, or audio only.

2. Press and release the desired input button.

**5**

3. Press and release the desired output button(s).

4. Press and release the Enter button.

**Amber** indicates **video** and **audio** tie.
**Green** indicates **video** tie.
**Red** indicates **audio** tie.

**3 4 8**



*Typical TPX 88 application*

TP T 15HD A — Twisted Pair Transmitter
Audio
Macintosh® Computer
TPX 88 A Twisted Pair Matrix Switcher
Audio
TP T 15HD A Twisted Pair Transmitter
PC
TP R 15HD A Twisted Pair Receiver
Stereo Audio
LCD Projector #1
XPA 1002 Audio Power Amplifier
SI 28 Surface-mount Speakers
Control System
TP R 15HD A Twisted Pair Receiver
Stereo Audio
LCD Projector #2
VTR001 Twisted Pair Receiver
VTR001 Twisted Pair Receiver
Presenter's Display
Lobby Display